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STANDARD

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(JSA)

**Technical drawings — Tolerancing of
orientation and location — Projected
tolerance zone**

ICS 01.100.20

Descriptors : engineering drawings, dimensional tolerances

Reference number : JIS B 0029 : 2000 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japanese Standards Association (JSA), with a draft of Industrial Standard based on the provision of Clause 1, Article 12 of the Industrial Standardization Law.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Technical drawings — Tolerancing of orientation and location — Projected tolerance zone

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **ISO 10578** *Technical drawings — Tolerancing of orientation and location — Projected tolerance zone* published in 1992 without modifying the technical contents.

The portions underlined with dots are the matters not stated in the original International Standard.

1 Scope This Standard defines the method of tolerancing by indication of a projected tolerance zone and specifies the method of indication.

Remarks 1. The method defined in this Standard is the same as that of clause 13 of JIS B 0021.

2. The International Standard corresponding to this Standard is given below.

ISO 10578:1992 *Technical drawings — Tolerancing of orientation and location — Projected tolerance zone*

2 Normative references The following standard contains provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent edition of the standard shall be applied.

JIS B 0021 *Geometrical product specification (GPS) — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out*

Remarks: Items cited from **ISO 1101** *Technical drawings — Geometrical tolerancing — Tolerancing of form, orientation, location and run-out — Generalities, definitions, symbols, indications on drawings* are equivalent to the corresponding matters of the said standard.

3 Definitions For the purposes of this Standard, the definitions given in **JIS B 0021** apply.

4 Projected tolerance zone The projected tolerance zone applies to the minimum external projection of the feature which is

- a) indicated on the drawing by the symbol $\textcircled{P}$ followed by the projected dimension,
- b) represented by a chain thin double-dashed line in the corresponding drawing view, and
- c) indicated in the tolerance frame by the symbol $\textcircled{P}$ placed after the tolerance of the tolerated feature.

See Fig. 1.